

# Lake Erie Toolworks Moxon Vice

## Assembly and Use Instructions:

### Assembly:

- 1) Remove and unpack the Moxon Vice components from the shipping package. This consists of a front and rear vise jaw and two vise screws.
- 2) On a flat bench or table, place the vise jaws oriented with the rear vise jaw threaded section positioned to the front and the front jaw positioned with the Lake Erie Toolworks logo facing forward (**See Figure 1**). Next, thread the vise screws into position through the front vise jaw and into the rear vise jaw threads and lightly tighten them (**See Figure 2**). Position the vise with the front jaw hanging over the front edge of your bench then push it against the bench. The overhang of the front jaw allows easy installation of the vise flush with the front edge of your bench (**See Figure 3**). Clamp the rear jaw to the benchtop (**See Figure 4**). Next, loosen both of the vise screws and then tighten them again to allow the weight of the front jaw to drop into position.
- 3) If there is a significant offset between the top of the front and back jaws (they aren't flush), then repeat step 2 by rotating the rear jaw so that the bottom of the rear jaw is now the top. You should find the top of the front and rear jaws to be flush or nearly so.
- 4) You can then sand or plane the front and rear vise jaws if you prefer as they are provided machine surfaced to you from Lake Erie Toolworks. The vise screws are provided sanded and are ready to finish. The faceted hand grip section of the vise screws are sanded to 120 grit to provide better "grip" when loosening and tightening the vise. Further sanding of the hand grips would reduce the friction and make grasping the vise more difficult.
- 5) We do recommend that you apply an oil finish (Danish oil or similar) to the vise jaws and vise screws to help seal and protect the wood vise components. We also recommend that you apply a coat of wax (Paste wax, paraffin, beeswax, etc.) to the screw sections of the vises and also the threaded sections of the rear vise jaw to aid in the smooth use of the vise. Periodic re-waxing of the threads will be needed over time.

### Use:

Once installed on your bench, your vise is ready to use. You will need to set the two vise screws so that the approx. width between the jaws matches your workpiece. Take your workpiece and hang it between the jaws. Move it so that it is right next to the left vise screw and tighten the vise screw, then back off a 1/4-1/2 turn. Do the same with the right vise screw. Then position your workpiece in the middle of the vise and tighten the left vise screw by the amount that you backed it off and then tighten the right vise screw snugging it down a bit more. Snug the left vise screw down and you are ready to saw, plane or otherwise work on your clamped piece. Loosening and re-clamping the same workpiece can be accomplished by just loosening and tightening one of the vise screws while leaving the other alone.

We also have a YouTube video detailing the use of our Moxon vise available through our website.



*(Figure 1)*



*(Figure 2)*



*(Figure 3)*



*(Figure 4)*